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NTDB id 601	KW2	RS02615	WP 021036805.1	EVTDEMPVITEKDI	EQVIEQKTIQIPVGD	KEKEEQTQL	NLADDLKAHVIGQDEAVDKITS	KAIRRSRVGL	GKPNRPIGSFLFVGP	482											
NTDB id 378	SMU	RS02690	WP 002263569.1	KLDKENTPVITEKNI	EVIVEEQKTNIPVGE	KEKEEQSQL	IHLADDLKTRVIGQDAAVDKIA	KAIRNRNVGL	GTPNRPIGSFLFVGP	489											
NTDB id 241	SP	RS04015	WP 000882523.1	KITDQDTPSISEKTI	EHIIIEQKTNIPVGD	KEKEEQSQL	IHLAEDLKSHVIGQDDAVDKIA	KAIRNRNVGL	GTPNRPIGSFLFVGP	488											
NTDB id 281	KZH43	RS03550	WP 000882517.1	KITDQDTPIIEKTI	EHIIIEQKTNIPVGD	KEKEEQSQL	IHLAEDLKSHVIGQDDAVDKIA	KAIRNRNVGL	GTPNRPIGSFLFVGP	488											
NTDB id 245	SPD	RS03860	WP 000882517.1	KITDQDTPIIEKTI	EHIIIEQKTNIPVGD	KEKEEQSQL	IHLAEDLKSHVIGQDDAVDKIA	KAIRNRNVGL	GTPNRPIGSFLFVGP	488											
NTDB id 243	SPR	RS03635	WP 000882517.1	KITDQDTPIIEKTI	EHIIIEQKTNIPVGD	KEKEEQSQL	IHLAEDLKSHVIGQDDAVDKIA	KAIRNRNVGL	GTPNRPIGSFLFVGP	488											
NTDB id 56273	H175	RS00465	WP 000971170.1	EQQKGENSEVIVEDI	ANVVSTWTRIPVSK	LAQTETDKLL	NLESTILHDLRIGQDEAVVA	AKAVRRARAGLKDP	KRPIGSFIIFLGP	547											
NTDB id 85	BSU	00860	NP 387967.1	EKQGGENSEVIVDDI	AMVVS	SWTGVPSK	LAQTETDKLL	NMENILHSRVIGQDEAVVA	AKAVRRARAGLKDP	KRPIGSFIIFLGP	546										
NTDB id 610	V4T04	RS10165	WP 012897346.1	VKEDKRQEVTDQAV	VAVASTLTGVP	ITQMTKSE	SDRLINLEKELH	KRVVGQEEATSA	VSRAIRRARSGVADSR	PMGSFMFLGP	555										
NTDB id 290	KZH43	RS10025	WP 001109677.1	VPV.YKDLVIT	ESDILTTLSRLSG	IPVQKLTQTD	AKKYNLEAELH	KRVIGQDQAVSSIS	RAIRRNQSGIRSH	KRPIGSFMFLGP	550										
NTDB id 289	SPD	RS10700	WP 001109677.1	VPV.YKDLVIT	ESDILTTLSRLSG	IPVQKLTQTD	AKKYNLEAELH	KRVIGQDQAVSSIS	RAIRRNQSGIRSH	KRPIGSFMFLGP	550										
NTDB id 287	SP	RS11210	WP 001109712.1	VPV.YKDLVIT	ESDILTTLSRLSG	IPVQKLTQTD	AKKYNLEAELH	KRVIGQDQAVSSIS	RAIRRNQSGIRSH	KRPIGSFMFLGP	550										
NTDB id 377	SMU	RS09275	WP 002262344.1	PLLKKRAEVKEEDI	LATLSKLSG	IPVKKLTQAD	SKKYNLERELH	KRVIGQDQAVSSIS	RAIRRNQSGIRV	GKRPIGSFMFLGP	553										
NTDB id 297	STER	RS00545	WP 011680614.1	AKFPKPALVDADQ	LMQTL	SRLSGIPVEK	MTQTD	SKRYNLSEELH	KRVIGQDEAVSA	ISRAIRRNQSGIR	TGKRPIGSFMFLGP	556									
NTDB id 329	STU	RS10020	WP 011225298.1	AKFPKPALVDADQ	LMQTL	SRLSGIPVEK	MTQTD	SKRYNLSEELH	KRVIGQDEAVSA	ISRAIRRNQSGIR	TGKRPIGSFMFLGP	556									
consensus				*	****	*	***	*	*!* *	*	*****	*!* *	***!*	*!* *	*	*!*!*	***	!* *	*!*!*	***!*	***!

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NTDB id 601	KW2	RS02615	WP 021036805.1	TGVGKTELAKQLAKE	IFGSS	ESMIR	IFDMSEYMEKHS	VAKL	IGAPPGYVGY	EEAGQLTE	RVRRN	PYS	LILLDE	TEKAHPDV	MHMF	567	
NTDB id 378	SMU	RS02690	WP 002263569.1	TGVGKTELAKQLA	IFGSE	DSMIR	IFDMSEYMEKHS	AVAKL	VGAPPGYVGY	EEAGQLTE	KVRRN	PYS	LILLDE	VEKAHPDV	MHMF	574	
NTDB id 241	SP	RS04015	WP 000882523.1	TGVGKTELSKQLA	IFGSA	DSMIR	IFDMSEYMEKHS	VAKL	VGAPPGYVGY	DEAGQLTE	KVRHN	PYS	LILLDE	VEKAHPDV	MHMF	573	
NTDB id 281	KZH43	RS03550	WP 000882517.1	TGVGKTELSKQLA	IFGSA	DSMIR	IFDMSEYMEKHS	VAKL	VGAPPGYVGY	DEAGQLTE	KVRHN	PYS	LILLDE	VEKAHPDV	MHMF	573	
NTDB id 245	SPD	RS03860	WP 000882517.1	TGVGKTELSKQLA	IFGSA	DSMIR	IFDMSEYMEKHS	VAKL	VGAPPGYVGY	DEAGQLTE	KVRHN	PYS	LILLDE	VEKAHPDV	MHMF	573	
NTDB id 243	SPR	RS03635	WP 000882517.1	TGVGKTELSKQLA	IFGSA	DSMIR	IFDMSEYMEKHS	VAKL	VGAPPGYVGY	DEAGQLTE	KVRHN	PYS	LILLDE	VEKAHPDV	MHMF	573	
NTDB id 56273	H175	RS00465	WP 000971170.1	TGVGKTELARALAE	SMFGDE	ESMIR	IFDMSEYMEKHS	T	SRLVGS	PPGYVGY	EEGGQLTE	KVR	KPYS	VLLDE	VEKAHPDV	VFNILL	632
NTDB id 85	BSU	00860	NP 387967.1	TGVGKTELARALAE	SMFGDE	ESMIR	IFDMSEYMEKHS	T	SRLVGS	PPGYVGY	DEGGQLTE	KVR	KPYS	VLLDE	TEKAHPDV	VFNILL	631
NTDB id 610	V4T04	RS10165	WP 012897346.1	TGVGKTELAKALAE	SVFGSE	DNMIR	VDMSEYMEKHS	T	SRLVGS	PPGYVGY	DEGGQLTE	RVRN	KPYS	VLLDE	VEKAHPDV	VFNIML	640
NTDB id 290	KZH43	RS10025	WP 001109677.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGELTE	KVRN	KPYS	VLLF	DEVEKAHPD	IFNVLL	635
NTDB id 289	SPD	RS10700	WP 001109677.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGELTE	KVRN	KPYS	VLLF	DEVEKAHPD	IFNVLL	635
NTDB id 287	SP	RS11210	WP 001109712.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGELTE	KVRN	KPYS	VLLF	DEVEKAHPD	IFNVLL	635
NTDB id 377	SMU	RS09275	WP 002262344.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	EEGGELTE	KVRN	KPYS	VLLF	DEVEKAHPD	IFNVILL	638
NTDB id 297	STER	RS00545	WP 011680614.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	DEGGELTE	KVRN	KPYS	VLLF	DETEKAHPD	IFNVILL	641
NTDB id 329	STU	RS10020	WP 011225298.1	TGVGKTELAKALAE	VLFDDE	ESAL	IRFDMSEYMEK	FAA	SRLN	GAPPGYVGY	DEGGELTE	KVRN	KPYS	VLLF	DETEKAHPD	IFNVILL	641
consensus				!!!!!!*	*!* *	*!* *	*!* *	*!* *	!!!!!!*	*!* *	*!* *	*!* *	!!!!!!*	*!* *	*!* *	!!!!!!*	*!* *

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NTDB id 601 KW2 RS02615 WP 021036805.1	ISNQTQETAETTDEEVP	748
NTDB id 378 SMU RS02690 WP 002263569.1	VIKASNK.VETVTKATSD.	753
NTDB id 241 SP RS04015 WP 000882523.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 281 KZH43 RS03550 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 245 SPD RS03860 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 243 SPR RS03635 WP 000882517.1	QIKSAKK.AEVKSSEKEK.	752
NTDB id 56273 H175 RS00465 WP 000971170.1	VIHSAEKVK.....	811
NTDB id 85 BSU 00860 NP 387967.1	VVKTTAKTN.....	810
NTDB id 610 V4T04 RS10165 WP 012897346.1	KIAQIV.....	816
NTDB id 290 KZH43 RS10025 WP 001109677.1	KFDIA.....	810
NTDB id 289 SPD RS10700 WP 001109677.1	KFDIA.....	810
NTDB id 287 SP RS11210 WP 001109712.1	KFDIA.....	810
NTDB id 377 SMU RS09275 WP 002262344.1	KFDIV.....	813
NTDB id 297 STER RS00545 WP 011680614.1	TFTVV.....	816
NTDB id 329 STU RS10020 WP 011225298.1	TFTVV.....	816
consensus		



-  non conserved
-  similar
-  ≥ 50% conserved